Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"5946414".pn.	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2004/11/02 17:07
S2	32803	steganograph\$4 or ((digital\$4 or electronic) near4 watermark\$4) or ((data or information) near4 (hid\$4 or embed\$4))	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2004/11/03 16:35
S3	736	(steganograph\$4 or ((digital\$4 or electronic) near4 watermark\$4) or ((data or information) near4 (hid\$4 or embed\$4))) with (color or colour)	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR ,	ON .	2004/11/03 16:35
S4	194	((steganograph\$4 or ((digital\$4 or electronic) near4 watermark\$4) or ((data or information) near4 (hid\$4 or embed\$4))) with (color or colour)) same (print\$6 or halfton\$5 or (half adj ton\$3))	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2004/11/03 16:36
S5	39	((steganograph\$4 or ((digital\$4 or electronic) near4 watermark\$4) or ((data or information) near4 (hid\$4 or embed\$4))) with (color or colour)) same (intensity or magnitude or lightness)	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2004/11/03 16:37
S6	15	(spot near (color or colour)) same (watermark\$5)	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR .	ON	2005/06/09 20:46
S7	38005	steganograph\$4 or ((digital\$4 or electronic) near4 watermark\$4) or ((data or information) near4 (hid\$4 or embed\$4))	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/06/09 20:46
S8	14	(spot near (color or colour)) same (S7)	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/06/09 20:46
S9	261	(combin\$6 or add\$6 or mix\$6 or lay\$3) near4 (spot near (color or colour))	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/06/09 20:48

S10	13	black near recombin\$6	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/06/09 20:50
S11	52	(spot near (color or colour)) same (copyright or "copy right" or security or watermark\$5 or barcode or "bar code")	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/06/10 10:08



SPIE Digital Library

Proceedings Journals

SPIE—The International Society for Optical Engineering

My SPIE Subscription | My E-mail Alerts | My Article Collections

SPIE DL home | Scitation home | Search SPIN | help | contact | sign in | sign out

Home » Advanced Search » Search Results

SEARCH DIGITAL LIBRARY

[Back To Results | | Volume Table of Contents]

Search

Advanced Search

BROWSE PROCEEDINGS

☑ Proceedings

- By Year
- By Symposium
- By Volume No.
- By Volume Title
- □ By Technology

BROWSE JOURNALS

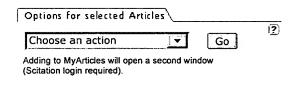
- Journals
 - □ Optical Engineering
 - D J. Electronic Imaging
 - D J. Biomedical Optics
 - J. Microlithography,
 Microfabrication,
 and Microsystems

GENERAL INFORMATION

- About the Digital Library
- Subscriptions & Pricing
- E-mail Alerts
- Terms of Use
- Companies & Institutions
- □ SPIEWeb

Abstract

Proceedings of SPIE -- Volume 5020 Security and Watermarking of Multimedia Contents V, Edward J. Delp III, Ping W. Wong, Editors, June 2003, pp. 430-439



Full Text: [PDF (441 kB)]

Watermarking spot colors

Osama M. Alattar and Alastair M. Reed Digimarc Corp. (USA)

Watermarking of printed materials has usually focused on process inks of cyan, magenta, yellow and black (CMYK). In packaging, almost three out of four printed materials include spot colors. Spot colors are special premixed inks, which can be produced in a vibrant range of colors, often outside the CMYK color gamut. In embedding a watermark into printed material, a common approach is to modify the luminance value of each pixel in the image. In the case of process color work pieces, the luminance change can be scaled to the C, M, Y and K channels using a weighting function, to produce the desired change in luminance. In the case of spot color art designs, there is only one channel available and the luminance change is applied to this channel. In this paper we develop a weighting function to embed the watermark signal across the range of different spot colors. This weighting function normalizes visibility effect and signal robustness across a wide range of different spot colors. It normalizes the signal robustness level over the range of an individual spot color"s intensity levels. Further, it takes into account the sensitivity of the capturing device to the different spot colors.

©2003 COPYRIGHT SPIE--The International Society for Optical Engineering. Downloading of the abstract is permitted for personal use only.

doi:10.1117/12.477305 Additional Information Full Text: [PDF (441 kB)]

[Back To Results | | Volume Table of Contents]

home | proceedings | journals

Terms of Use | Privacy Policy | Contact

© 1994 – 2005 The International Society for Optical Engineering



Home | Login | Logout | Access Information | Alerts |

Welcome United States Patent and Trademark Office

☐ Search Results

BROWSE

SEARCH

IEEE XPLORE GUIDE

Results for "(((spot) <near> (color <or> colour) colour) colour) colour) colour) Your search matched 0 of 1168854 documents.

⊠e-mail

A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

» View Session History

» New Search

Modify Search

» Key

(((spot) <near> (color <or> colour) <paragraph> (watermark*))<in>metadata)

>>

IEEE JNL IEEE Journal or Magazine

Check to search only within this results set

IEE JNL

IEE Journal or Magazine

Display Format: © Citation C Citation & Abstract

IEEE

IEEE Conference

CNF

Proceeding

IEE CNF IEE Conference

No results were found.

Proceeding

IEEE STD

IEEE Standard

Please edit your search criteria and try again. Refer to the Help pages if you need assistance revisir

Help Contact Us Privacy &:

© Copyright 2005 IEEE -

Indexed by #Inspec



SPIE Digital Library

Proceedings Journals

SPIE—The International Society for Optical Engineering

My SPIE Subscription | My E-mail Alerts | My Article Collections

SPIE DL home | Scitation home | Search SPIN | help | contact | sign in | sign out

Home » Advanced Search » Search Results

SEARCH DIGITAL LIBRARY

[Back to Search Query | Start New Search | Searching Hints]

Search
Advanced Search

BROWSE PROCEEDINGS

- Proceedings
 - By Year
 - □ By Symposium
 - By Volume No.
 - By Volume Title
 - □ By Technology

BROWSE JOURNALS

- Journals
 - Optical Engineering
 - D J. Electronic Imaging
 - D J. Biomedical Optics
 - J. Microlithography, Microfabrication, and Microsystems

GENERAL INFORMATION

- About the Digital Library
- Subscriptions & Pricing
- ☑ E-mail Alerts
- Terms of Use
- Companies & Institutions
- SPIEWeb

Search Results

required).

81%

You were searching for : ((watermark <IN> abstract <OR> watermark <IN> title <OR> watermark <IN> keywords) <and>(spot color <IN> abstract <OR> spot color <IN> title <OR> spot color <IN> keywords))

You found 1 out of 188523 (1 returned) Documents 1 - 1 listed on this page



[Related SPIE Products]

Watermarking spot colors

Osama M. Alattar and Alastair M. Reed Proc. SPIE Int. Soc. Opt. Eng. **5020**, 430 (2003) PDF (441 kB)

home | proceedings | journals

Terms of Use | Privacy Policy | Contact

© 1994 – 2005

